

Design (glossary)

design

The printable version is no longer supported and may have rendering errors. Please update your browser bookmarks and please use the default browser print function instead.

(System) design includes activities to create concepts and models, and/or to conceive something (a system / a solution that answers an intended purpose) based on or using principles and concepts; the outcome of design activities is a coherent and purposeful set of models or representations using defined constructs and patterns (that implement principles and concepts). (ISO/IEC/IEEC 2009)

Sources

ISO/IEC/IEEE. 2009. *Systems and Software Engineering - System and Software Engineering Vocabulary*. Geneva, Switzerland: International Organization for Standardization (ISO)/International Electrotechnical Commission (IEC)/ Institute of Electrical and Electronics Engineers (IEEE). ISO/IEC/IEEE 24765:2009.

Discussion

The definition provided above is a synthesis and adapted to systems of several understanding to the term "Design" as found in the sources cited.

In ISO/IEC/IEEE 24765:2010 - *Systems and software engineering - Vocabulary*, "design" means:

1. the process of defining the architecture, components, interfaces, and other characteristics of a system or component;
2. the result of the process in (1);
3. the process of defining the software architecture, components, modules, interfaces, and data for a software system to satisfy specified requirements;

4. the process of conceiving, inventing, or contriving a scheme for turning a computer program specification into an operational program;
5. activity that links requirements analysis to coding and debugging; or
6. stage of documentation development that is concerned with determining what documentation will be provided in a product and what the nature of the documentation will be (ISO/IEC 26514:2008 Systems and software engineering--requirements for designers and developers of user documentation, 4.13)

SEBoK v. 2.7, released 31 October 2022

Retrieved from

"[https://sebokwiki.org/w/index.php?title=Design_\(glossary\)&oldid=65861](https://sebokwiki.org/w/index.php?title=Design_(glossary)&oldid=65861)"

This page was last edited on 10 October 2022, at 00:21.